



Air and Waste Matters

DNREC Division of Air and Waste Management

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ERT Alert—Overturned Gasoline Tanker

When a tanker-truck driver loses control and rolls his 8,000-gallon gasoline tanker down a 50-foot embankment, you know it's a serious accident. That's exactly what happened on April 5 off Route 1 near Roth Bridge. To make matters worse, the front tractor landed on its roof, trapping the driver inside the cab. Fortunately, DNREC's Emergency Response Team (ERT) was there to respond to the accident with the local fire companies.

fire companies' initial response was to extricate the driver while controlling flammable vapors to prevent fire or explosion. Route 1 Southbound was completely shut down for several hours.

Once the driver was extricated from the cab, DNREC's ERT did the preliminary work to transfer gas and diesel fuel from the tanker so that the wreckage could be cleared from the scene and Route 1 reopened.

Gasoline was leaking out of the two hatches at the rear of the trailer. The

(Continued on page 2)



DNREC ERT members Jamie Bethard and Casey Fountain carefully work together to drill the openings that will be used to off-load the gasoline from the tanker.

ERT Alert—Overturned Gasoline Tanker *Continued...*

First, the emergency responders and an assisting contractor bonded and grounded the tanker, then DNREC ERT members, Jamie Bethard, Casey Fountain and Matt Higgins, climbed to the top of the tanker and drilled the holes needed to transfer the gasoline and diesel into other tank trucks.

Drilling holes on top of a gasoline tanker is not for the faint of heart. Fortunately, the ERT members are trained for this type of work. They use a spark-less drill with a very special lubricating oil, a biodegradable aluminum metal cutting oil, and lots of it. Bethard, Fountain and Higgins carefully took turns drilling five perfect spark-less openings into the tanker. The tanker was safely drained and vapors controlled throughout the off-loading operation.

The DNREC ERT must respond to accidents like these at a moment's notice. The ERT has 20 response road vehicles, including fully-equipped hazardous materials (HazMat) response trucks capable of mobilizing equipment and personnel within 15 minutes of dispatch. They also have a HazMat trailer, an all-terrain vehicle for beach and off-road access, a mobile command post, and several light-duty support vehicles.

In addition, equipment to monitor for radiation, biological and chemical warfare agents and toxic industrial chemicals is stowed on the three primary HazMat response trucks.

The DNREC ERT also has a 21-foot Boston Whaler and a 17-foot shallow wa-

ter boat. This equipment requires a significant amount of training and expert interpretation. The ERT continues to expand their capabilities through state-of-the-art training and acquiring necessary equipment to perform their jobs safely, and protect human health, welfare and the environment.

The DNREC ERT safely completed their tasks for the tanker incident and were successful in minimizing environmental impact from the spilled fuel. Another good day at DNREC.

Article by J. Bethard, EPRB and C. Wirtz, DAWM

**Delaware DNREC Emergency Response
Complaints, Spills, Releases
(800) 662-8802
(302) 739-9401, or #DNR for Verizon
Wireless Customers**



M. Higgins

Once the gasoline was removed and the vapors controlled, the empty tanker was lifted from the bottom of the embankment near Route 1.

Who's on the Front Lines?

The dedicated and highly-trained DNREC ERT team includes three full-time environmental scientists, twelve enforcement officers, six volunteer environmental scientists and engineers, a program manager and a tireless administrative support specialist. These individuals form the critical hazardous materials and weapons of mass destruction response component of the State of Delaware's State Emergency Response Team. So who are these people on the emergency response front lines?

Wendy March is one of the volunteer environmental scientists and engineers responsible for a week of after-hours on-call duty within a five-week rotation. This is in addition to her responsibilities as an environmental scientist for DNREC's Site Investigation and Restoration Branch (SIRB). By day, she manages the operations and maintenance program for contaminated sites in the state superfund and brown-fields programs. By night, in addition to being a wife and mother of two teenagers, she is on-call after-hours and 24/7 on weekends and state holidays to respond to accidents that occur during her week. "It can be interesting to get out in the middle of a brisk, fall night, climb on a small boat, and inspect a large, grounded tanker in the C&D Canal," she quips. Yes, *interesting*...

It takes a special kind of person with very specialized training to be a responder. In addition to the monthly and annual training completed by the DNREC ERT responders, March also trained extensively as an emergency responder when she worked with DuPont's Stine-Haskell Research Center's Emergency Team for eight years. She has over 175 hours of emergency training at the Delaware State Fire School.

Jamie Bethard is one of the four full-time emergency responders on the ERT. He has been with DNREC for over 20 years. He, along with other members of the ERT, have been training with the Delaware State Police Explosive Ordi-



Wendy March checks her face mask and air monitoring equipment before storing it in the ERT vehicle.

nance Disposal Unit for the last four years. Bethard assists in the evaluation of unidentified chemicals and air monitoring data from ERT instruments mounted on an Explosive Ordnance Disposal robot. Bethard also pre-stages with the ERT at large public events (e.g., NASCAR and political events), which have a high potential threat value. It is the ERT's responsibility to function as the science officer when evaluating incidents which may involve "dirty bombs" for the protection of the bomb technician and the public. Bethard says his specialty is all of it—he loves what he does and it shows.

As an enforcement officer, Casey Fountain also participates in the DNREC ERT. Fountain has over five years as an Enforcement Officer and another three as an emergency responder in the private sector. His specialty is transportation incidents, and he and Bethard, along with Matt Higgins, responded to the overturned tank truck incident near Roth Bridge (p. 1). "That was probably the 25th tanker that I've drilled to off-load," Fountain said, "It's all pretty routine now."

Routine or not, the DNREC ERT stands ready 24/7 to protect human health, welfare and the environment in Delaware.

Article by C. Wirtz, DAWM

The First State in Sustainable Energy Utility

Delaware's early investment in sustainable energy is paying off. The upcoming implementation of energy efficiency and renewable programs is expected to create new green jobs and help Delawareans save money on utility bills—all while helping the environment.

Legislation signed by former Governor Ruth Ann Minner in June 2007 created the Delaware Sustainable Energy Utility (DSEU), a unique nonprofit organization whose mission is to serve as a single point-of-contact and resource for education and programs in energy efficiency and renewables. The DSEU model is the first of its kind in the U.S.

Through the SEU programs, Delaware aims to reduce energy use by an average participant by 30%, with a similar reduction in greenhouse

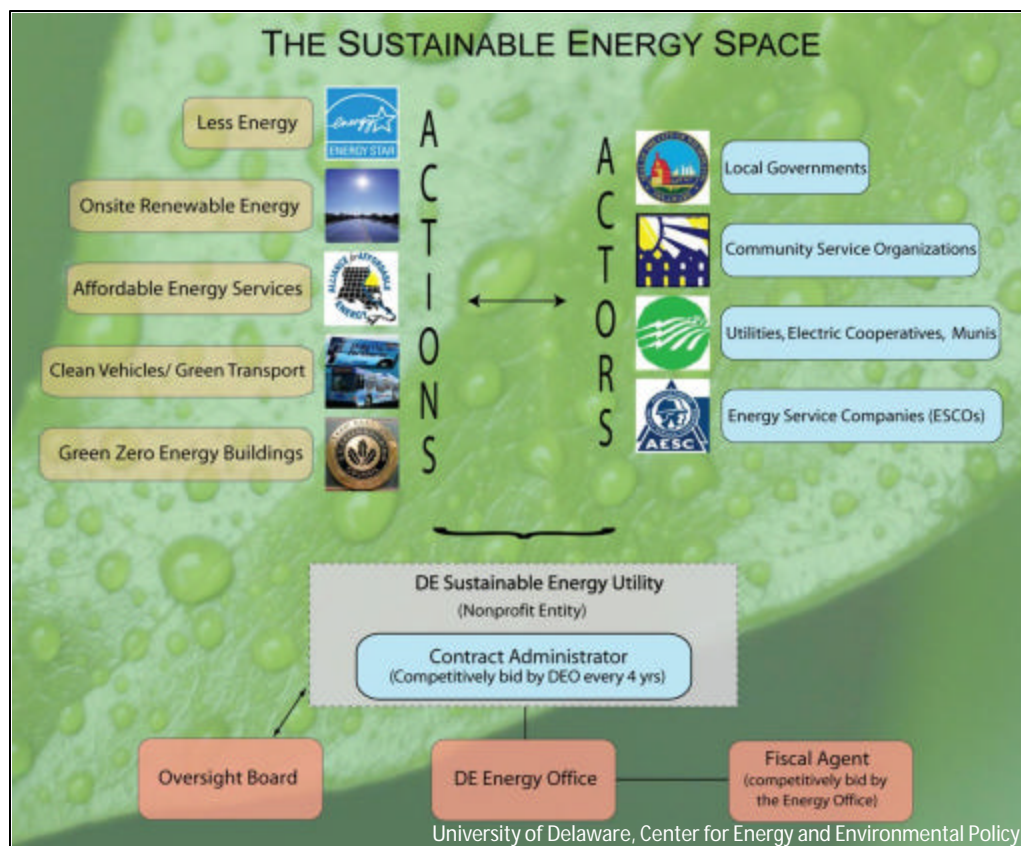
gas emissions, by the end of 2015. This aggressive reduction will help spur rapid green job creation in an economy hard hit by recent business closings and cutbacks.

According to a recent Climate Action Partnership (CAP) study, more jobs are created by investments in energy efficiency and renewable energy than by traditional incentives. Jobs in the green market can range from home weatherization to commercial architecture. Investments in people, energy efficiency, and renewable energy also help reduce the trade deficit and keep dollars circulating in the U.S., rather than paying for imported oil.

Power to the People!

So what can the average consumer expect to gain by Delaware being the first state to estab-

lish this type of model? Not only will there be more opportunities in green jobs and job training, but consumers will also have increased power over their energy bills through improved efficiencies and renewable resources. Program designs are in development, but will include incentives for consumers to purchase more ENERGY STAR® qualified household appliances, lighting, and electronics; lighting retrofits for small commercial businesses; energy savings programs for commercial and in-



The "Sustainable Energy Space" defines all the players in the SEU concept.

(Continued on page 5)

Evraz Claymont Steel Update

Evrast Claymont Steel Inc. (formerly CitiSteel) is a steel mini-mill in Claymont with several big air quality issues. DNREC found CitiSteel to be in violation of state and federal air quality regulations and ordered the facility to clean up in 2006. The violations included dust and mercury emissions. Evraz Group S.A., a Russian consortium, bought the facility in 2007 and is now responsible for cleanup at the site. As part of the cleanup, DNREC required Evraz to complete several studies and reports at the site.

DNREC is currently reviewing the Draft Melt Shop Study dated December 2008. Although Evraz has not provided DNREC with a schedule for improvements that were noted in the Draft Melt Shop Study, Evraz has made the following compliance efforts:

- Provided DNREC with a revised version of the dispersion modeling protocol.
- Purchased a high end sweeper truck and increased hours of operation to 40 hrs./week.

- Continued to work on reducing their inventory of slag on-site.
- Completed improvements on the carbon silo system to seal the hopper, auger and all connections below the hopper.
- Adjusted air flow to the Electric Arc Furnace (EAF) Baghouse, evaluated and improved dampers within, and improved the blower system on the baghouse silo.
- Implemented a tarping (cover) procedure for the "slag and scarfing" piles that may be susceptible to wind erosion/deposition.
- Installed a real-time furnace off-gas analysis system to adjust the energy input to the furnace in an effort to reduce fugitive dust emissions from the EAF by providing instant feedback to the operator.

Evraz's independent contractor, AECOM, continues to monitor the total suspended particulate emissions at the site. For more information, please visit: <http://www.awm.delaware.gov/Pages/AWMClaymontPage.aspx>. Article by B. Klotz, AQM

The First State in Sustainable Energy Utility *Continued...*

dustrial businesses; expanded renewable programs; and even programs that assist in energy reduction in agriculture and transportation.

According to University of Delaware Professor John Byrne, the average household can expect annual savings of about \$1,000 in their energy bill. The first programs will be launched in August. Dr. Byrne, a principal architect of the State's Sustainable Energy Utility, is co-chair with Senator Harris B. McDowell III on the Oversight Board. Other board members are: Nnamdi Chukwuocha, Kingwood Community Center; Sharron Cirillo, Public Accountant; Randall Day, Perdue Agribusiness; Roger Jones, The Nature Conservancy; Joe Loper, Alliance to Save Energy; Secretary Collin O'Mara, DNREC; Judge Arthur J. Padmore, Delaware Public Advocate; Representative Pamela Thornburg; and Dr. Charles Wagner, Manufacturer of Energy Devices. For more



Although completed through DNREC's Green Energy Program, the use of solar panels at Jade Run Farm near Middletown is a good example of a SEU project. CMI Electric

information about the Delaware Sustainable Energy Utility, please visit:

<http://www.seu-de.org>.

Article by C. Smission, Delaware Energy Office

Air Quality Action Day at Rodney Square

The Air Quality Partnership of Delaware's annual ozone season kickoff started earlier in the season this year. Typically held in May when the ozone season officially begins, the kickoff was instead coordinated with Earth Day ceremonies at Rodney Square in Wilmington, due to concerns that poor air quality days would arrive earlier this year.

It was an appropriate location to highlight statewide air pollution problems—even the trees in Rodney Square have been affected by the poor air quality in Wilmington. Gov. Jack Markell declared the week of April 22 as Air Quality Awareness Week. Wilmington Mayor James Baker, American Lung Association Executive Director Deb Brown, Partnership



Governor Markell addresses the crowd at the event.

for the Delaware Estuary Executive Director Jennifer Adkins, DNREC Secretary Collin O'Mara, and former DNREC Division of Air and Waste Management Director Jim Werner were also on hand to encourage air quality action.



Deb Brown, Randi Novakoff (WILMAPCO), and DNREC Air Quality Section's Terri Brixen present the Governor's Air Quality Awareness Week Proclamation.

Several hundred people attended the celebration and the exhibits tent, where the Partnership and other groups provided free environmental information, toys, and kid-oriented activities. For more information, please visit DNREC's Air Quality Index website at:

<http://www.dnrec.delaware.gov/AQI/Pages/AQIForecast.aspx>.

Sign up for air quality alerts via e-mail at:

<http://www.dnrec.delaware.gov/Pages/DNRECLists.aspx>.

Article by T. Brixen, AQM

Fox Point State Park/Glenville Project Wins FHWA Award

Congratulations, once again to the team members of the Glenville Wetlands Mitigation Bank Project and Fox Point State Park Expansion. The Federal Highways Administration (FHWA) recently announced that the project was selected as the recipient of the 2009 FHWA Environmental Excellence Award in the Ecology, Habitat and Wildlife category as an Exemplary Ecosystem Initiative Program.

The project was a successful collaboration between DelDOT and DNREC that also won the 2008 Governor's Team Excellence Award.

The Governor's award is presented annually to a team of state employees that partner together and demonstrate leadership and ingenuity for better efficiency and improved customer service in task completion; or new and creative ways of doing business and cost savings. The entire project included providing public access to the Delaware River, flood-mitigation of the Glenville neighborhood, and the creation of a new 48-acre wetland habitat, with a \$3 million dollar cost-savings to the taxpayers of Delaware.

For more information on the project, please visit:

<http://www.awm.delaware.gov/SIRB/Pages/FinalizingFoxPoint.aspx>.

For more information on the Governor's award, please visit:

<http://www.delawarepersonnel.com/awards/excellence/index.shtml>.



Visitors enjoy the wide-open grassy meadows and the view of the Delaware Memorial Bridge at the opening day ceremonies for the park expansion.



John Cargill, IV, of the Division's Site Investigation and Restoration Branch, with his grandmother, Beth Redmond, at the Earth Day opening ceremonies for the park. Cargill was instrumental in getting the project completed in partnership with DNREC's Division of Parks and Recreation and DelDOT. Cargill proudly states that his "Gram" has attended every momentous occasion in his life!

**DELAWARE
DEPARTMENT OF
NATURAL
RESOURCES AND
ENVIRONMENTAL
CONTROL**

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Deputy Sec. David Small

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We're on the web!
www.awm.delaware.gov

Visit the Site

**Investigation and
Restoration Branch
Brownfields Website**

at:

[http://
www.dnrec.state.de.us/
dnrec2000/Divisions/
AVM/sirb/
brownfield.asp](http://www.dnrec.state.de.us/dnrec2000/Divisions/AVM/sirb/brownfield.asp)

**for more Brownfields
information.**



The Division of Air and Waste Management includes the following sections and responsibilities:

- **Air Quality Management Section** — air monitoring and regulating air emissions.
- **Tank Management Branch** — maintenance and installation of underground and above ground storage tanks & overseeing cleanup of tanks which may leak.
- **Emergency Prevention and Response Branch** — preventing industrial accidents, assuring emergency planning and community right-to-know, and responding to environmental emergencies.
- **Environmental Crimes Unit** — the Enforcement Officers enforce the state's air, waste and water pollution laws, and participate on DNREC's Environmental Response Team by responding to environmental emergencies.
- **Site Investigation and Restoration Branch** — remediation of sites contaminated by hazardous substances (Superfund/Brownfields/Voluntary Cleanup Program).
- **Solid and Hazardous Waste Management Branch** — reuse, recycling, transport and disposal of solid and hazardous waste.

EASY REFERENCE PHONE NUMBERS

24-Hour Report and Spill Notification Line - 1-800-662-8802
Aboveground Storage Tanks - 302-395-2500
Air Quality - Dover Office - 302-739-9402
- New Castle Office - 302-323-4542
Asbestos - New Castle - 302-323-4542
- Kent & Sussex - 302-739-9402
Boiler Safety - 302-672-7653
Brownfields - 302-395-2600
Emergency Prevention and Response - 302-739-9404
Environmental Crimes Unit - 302-739-9401 or 1-800-662-8802
Hazardous Waste - 302-739-9403
Medical Waste - 302-739-9403
Open Burning - 302-739-9402
Outreach Ombudsman - 302-395-2515
Recycling - 302-739-9403
Site Investigation & Restoration Branch (Superfund/Brownfields) - 302-395-2600
Small Business Ombudsman - 302-739-9909
Solid Waste - 302-739-9403
Underground Storage Tanks - 302-395-2500

DID YOU KNOW?

DNREC ERT volunteers Matthew Higgins, Ed Jackson, Casey Fountain and Matthew Chamberlain were at the Dover Downs International Speedway providing hazardous materials emergency response for the NASCAR events on May 29, 30 and 31. They were at the track each day at 4:00 a.m. to conduct pre-event sweeps with the Delaware State Police-Explosive Ordnance Disposal unit. On May 30, they remained on-site until 9:00 p.m. for the completion of the second NASCAR race of the day. Jamie Bethard, also with the DNREC ERT, organized and coordinated the ERT for this special event duty.